

# Celotex TD4000

## Introduction

Celotex TD4000 provides a quick and easy way to achieve effective thermally insulated flat roof decks for building structures such as small extensions or garage roofs where there will only be occasional trafficking.

TD4000 is 5.5mm WBP exterior grade plywood upper facing bonded to rigid polyisocyanurate foam board, manufactured using zero ozone depletion potential (ODP) blowing agents with low global warming potential (GWP).

With Celotex TD4000 you are specifying an insulation board that:

- Is a three-in-one product to provide deck, vapour control layer and insulation
- Provides reliable long term energy savings for buildings
- Is ideal for use in occasionally trafficked applications
- Provides warm roof construction due to over joist installation
- Is rapidly installed and weatherproofed
- Accepts a wide variety of weathering systems
- Is available in a standard board size of 1200mm x 2400mm

## Applications

Celotex TD4000 is purpose designed for use in light traffic **flat roof** applications.

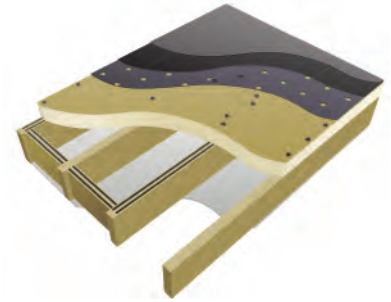
## Specification Clause

The insulation shall be Celotex TD4000 \_\_\_\_\_mm thick comprising a polyisocyanurate rigid foam insulation core with a thermal conductivity of 0.022 W/mK with low emissivity aluminium foil facings on both sides bonded to a layer of 6mm WBP plywood. Celotex TD4000 is CFC/HCFC free with zero ODP and low GWP. Celotex TD4000 is manufactured in accordance with BS EN 13165, quality management system ISO 9001 and environmental management system ISO 14001. All products must be installed in accordance with instructions issued by Celotex.

## Celotex TD4000 Technical Data

Product Code	Thickness (mm)	Combined	
		R-value (m <sup>2</sup> K/W)	Weight (kg/m <sup>2</sup> )
TD4096	90 + 5.5	4.10	6.46
TD4106	100 + 5.5	4.55	6.97
TD4116	110 + 5.5	5.00	7.28
TD4126	120 + 5.5	5.45	7.58

Cont...



Celotex TD4000

## Sustainable Insulation

Celotex PIR insulation has been independently assessed by BRE Global and has been accredited with an **A+ rating** when compared to the BRE Green Guide 2008.

The results also show that Celotex offers a lower environmental impact than other typical PIR manufacturers.

For further information about Celotex' sustainable insulation solutions, visit the sustainability pages of the website at [celotex.co.uk](http://celotex.co.uk)





## Physical Properties (insulation only)

	<b>Method</b>	<b>TD4000</b>
<b>Compressive strength</b>	BS EN 826	≥120kPa
<b>Dimensional stability</b>	BS EN 1604	DS(TH)8
<b>Water vapour resistance</b>	BS EN 12086	>150MNs/g
<b>Thermal conductivity</b>	BS EN 12667	0.022 W/mK

## Typical U-values

U-values will vary depending on application. To calculate a specific U-value, please refer to our online [U-value calculator](#) at [celotex.co.uk](#)

## Installation Guidelines

Installation guidelines will vary according to application. For full details regarding the use of Celotex TD4000, please refer to the 'application' pages of the website at [celotex.co.uk](#) and select the application of interest.

## Further Information

If you wish to contact Celotex, please visit [celotex.co.uk](#) and click on the 'contact us' page.

For information regarding [storage, installation and handling](#) of Celotex products, or for [Health & Safety](#) advice, please refer to the 'literature' pages of the website at [celotex.co.uk](#)

Celotex has a policy of continuous product development and reserves the right to alter product designs or specifications without prior notice.

\*Calls to the Celotex Technical Centre are charged at 30p per minute from a BT landline and lines are open Monday - Friday from 8.00am - 5.15pm. Details are correct at date of publication - July 2011.

**Celotex Limited**  
Lady Lane Industrial Estate,  
Hadleigh, Ipswich  
Suffolk IP7 6BA

**T:** 0901 996 0100\*  
**W:** [celotex.co.uk](#)

Registered Office:  
Lady Lane Industrial Estate  
Hadleigh, Ipswich, Suffolk IP7 6BA  
Registered in England No 2183896